FIRE LOSSES IN BRITISH COLUMBIA IN 1988

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Fire Losses in British Columbia, 1988

Fifty nine persons died and 380 were injured as a result of 7,499 fires in 1988, causing a total dollar loss of $119,633,561. The losses for the last ten years have been as follows:

Year	Number of Fires	$ Loss (millions)	$ Loss (millions) Adjusted by CPI to constant 1981 $	Number Injured	Number Dead
1988	**7,499**	**119.6**	**86.6**	**380**	**59**
1987	7,542	117.1	87.9	398	42
1986	7,667	109.8	84.9	343	58
1985	8,285	131.9	105.3	398	60
1984	7,237	108.9	89.7	396	79
1983	7,724	131.7	112.9	404	83
1982	7,623	157.3	142.3	375	73
1981	7,023	115.7	115.7	244	76
1980	7,605	108.7	124.2	308	77
1979	7,655	105.9	132.4	444	125

Table 1 - Fire Losses in British Columbia, 1979 to 1988.

The average loss per fire for the province in 1988 was $15,953 and the per capita loss was $40.09, up from $40.04 in 1987. There was an average of 2.51 fires for every 1,000 persons in British Columbia; this is down from 2.58 in 1987.

Fire Fatalities

- Twenty-seven men, 16 women and 16 children lost their lives as a result of fire in British Columbia.
- 18 of the 59 fatalities (30 per cent) were over 60 years of age.
- 11 fire fatalities resulted from careless smoking, 6 of them in a single fire. Smoking related fatalities have been declining over recent years; in 1987 the figure was 15, in 1986, it was 18, in 1985 it was 19 and in 1984 it was 32.
- 5 persons died as a result of intentionally set fires.
- 7 persons died in fires started by children playing with matches or lighters. There were no deaths caused by children playing with matches or lighters in 1987.
- At least 9 persons who died were impaired by alcohol, drugs or medication. In addition, at least 8 persons who died from fire were asleep at the time of the fire, and eight more were too young to react.

Residential Fires

Twenty-nine per cent of all fires in 1988 were in one- and two-family dwellings, resulting in a total loss of $48.1 million. A further seven per cent of the fires were in apartment buildings with a loss of $9.5 million. These two residential categories accounted for thirty six per cent of the total number of fires and forty eight per cent of the total 1988 fire losses in the province.

Fifty-four of the 59 fire fatalities, or 92 per cent, occurred in residential fires, including hotels and mobile homes. There were 40 fatalities in one- and two-family dwellings and 4 in apartment buildings. The time period between 10 p.m. and 8 a.m. accounted for eighteen of the 40 fire deaths in one- and two- family dwellings, and 2 of the 4 fire deaths in apartment buildings.

	1- & 2 Family Dwelling	Apartment Building	
Total number of fires in property group	**2,201**	**506**	
Cooking fires	**539**	**136**	
As a percentage of all fires in group	24.4%	26.8%	
As a percentage of total $ loss in property group	8.3%	6.5%	
Number of fatalities over total in property group	2/40	0/4	
Heating equipment fires	**521**	**18**	
As a percentage of all fires in group	23.6%	3.5%	*
As a percentage of total $ loss in property group	16.3%	2.3%	*
Number of fatalities over total in property group	2/40	0/4	
Smoking material fires	**169**	**104**	
As a percentage of all fires in group	7.6%	20.5%	*
As a percentage of total $ loss in property group	6.3%	13.2%	*
Number of fatalities over total in property group	19/40	3/4	
Arson fires	**177**	**96**	
As a percentage of all fires in group	8.0%	18.9%	*
As a percentage of total $ loss in property group	9.2%	37.6%	*
Number of fatalities over total in property group	3/40	0/4	

Table 2 - Comparison of One- and Two-Family Dwellings and Apartment Fire Incidents.

Twenty-nine of the 40 fire fatalities (73 per cent) in one- and two-family dwellings occurred in homes where there were no smoke alarms installed. An additional 3 deaths occurred in homes where the alarm did not activate because the battery was either missing or dead. In the case of 4 deaths, it could not be determined if the smoke alarms operated.

The fire experience in one- and two-family dwellings and apartment buildings indicates significant differences between the two groups. See table 2 above; the asterisks highlight differences.

Igniting Object	Fires	Injured	Dead	Dollar Loss
Central heating unit	13	0	1	252,532
Space heater	74	2	0	915,160
Fireplace	120	1	0	724,316
Masonry chimney	99	0	0	963,532
Factory-built metal chimney	59	2	1	1,573,814
Flue connector	21	0	0	326,388
Heating equipment - other	6	0	0	254,996
1988 Total	**392**	**5**	**1**	**5,010,738**
1987 Total	422	8	0	4,239,511

Table 3 - Breakdown of Igniting Objects for Solid-fuel Related Fires in One- and Two-Family Dwellings.

Heating equipment fires accounted for 23.6 per cent of the fires in one- and two-family dwellings, but only 3.5 per cent in apartment building fires. Of all heating equipment fires in one- and two-family dwellings, 75 per cent were related to the use of solid fuel.

Smokers' materials accounted for about 7.6 per cent of one- and two-family dwelling fires but 20.5 per cent for apartment fires. Smokers' material was responsible for the largest life-loss fire last year in which two adults and four children died.

The **rate of arson** in apartment buildings was about two and a half times that in one- and two-family dwellings.

Educational Institutions

There were 71 fires in educational institutions in 1988 resulting in a loss of $370,657. This is a considerable reduction from 1987 when the loss was $2,804,575. The number of fires in schools peaked in 1979 when there were 125 fires which caused a loss of $9.3 million.

Ninety four per cent of the fire loss in educational institutions was caused by intentionally set fires. This high percentage is consistent with previous years.

Automobile Fires

There were 2,296 automobile fires in British Columbia in 1988. These fires accounted for 30.6 per cent of the number of fires in 1988 causing a loss of $5.9 million.

Large Dollar-Loss Fires

There were 21 fires in which individual losses were $500,000 or more. Although they accounted for less than one third of one per cent of the total fires, they were responsible for losses of $27.8 million loss, or 23.2 per cent of the province's total for the year. Eight of the fires in this large loss category were a result of arson or suspected arson, with losses of $7.1 million.

Arson

1,319 fires out of the total 7,499 (17.5 per cent) fires in 1988 were arson or suspected arson, causing a loss of $23.8 million (19.8 per cent of dollar losses). In 1987, 1,319, or 17 per cent of total fires were set and caused a loss of $23.6 million (20 per cent of dollar loss). The percentage of arson fires over the total number of fires peaked in 1976 at 23.3 per cent. Of the 1,319 arson incidents, 356 (27 per cent) were classified as vandalism or mischief. This category has historically accounted for the bulk of arson incidents. A breakdown of arson incidents follows.

Act or Omission	Fires	Injured	Dead	$ Loss
Arson for financial gain	7	1	0	73,400
Arson as a cover-up crime	102	0	2	2,456,502
Arson - political, religious motive	1	0	0	20,000
Arson for revenge, spite	30	0	0	423,218
Arson - mental disorder, suicide	27	4	3	458,198
Arson - vandalism, mischief	356	2	0	2,626,735
Arson - intimidation	4	0	0	96,928
Arson - motive unknown/unclassified	281	16	0	7,204,732
Suspected arson - motive unknown or unclassified	511	7	0	8,611,191
Total	**1,319**	**30**	**5**	**23,802,355**

Table 4 - Breakdown of Arson or Suspected Arson Fires.

The frequency of arson is heaviest in the urban areas; 34 per cent of fires in the city of Vancouver were arson compared to about 12 per cent in areas outside the Lower Mainland.

Seventy-four adults and 32 juveniles were charged in arson-related incidents in 1988 according to statistics compiled by the Ministry of the Solicitor General.

Rick Dumala, P. Eng.
Fire Commissioner

Fire Losses in Municipal Areas

Loc. Code	Location	Population	Fires	Injured	Dead	$ Loss	Loss Per Fire	Per Capita Loss	Fires Per 1000 Persons
VHM	100 Mile House	1,635	8	1	0	362,715	45,339	221.84	4.89
DAB	Abbotsford	15,842	61	0	1	510,021	8,361	32.19	3.85
VAL	Alert Bay	681	3	0	0	603,300	201,100	885.90	4.41
VAN	Anmore	652	1	0	0	1,000	1,000	1.53	1.53
CAR	Armstrong	2,705	10	0	0	141,428	14,143	52.28	3.70
VAS	Ashcroft	1,720	4	0	0	50,879	12,720	29.58	2.33
VBE	Belcarra	591	1	0	0	100	100	0.17	1.69
DBU	Burnaby	149,178	373	30	1	4,108,824	11,016	27.54	2.50
VBU	Burns Lake	1,699	6	0	0	43,703	7,284	25.72	3.53
VCA	Cache Creek	1,038	2	0	1	11,986	5,993	11.55	1.93
DCA	Campbell River	18,049	51	1	0	384,456	7,538	21.30	2.83
CCA	Castlegar	6,223	20	0	0	78,157	3,908	12.56	3.21
DCE	Central Saanich	12,167	17	0	1	44,511	2,618	3.66	1.40
VCH	Chase	1,928	6	0	0	27,458	4,576	14.24	3.11
VCD	Chetwynd	2,657	10	0	0	88,334	8,833	33.25	3.76
DCH	Chilliwack	44,076	130	4	0	1,329,810	10,229	30.17	2.95
DCO	Coldstream	7,061	9	0	0	52,662	5,851	7.46	1.27
CCL	Colwood	12,229	20	0	0	22,728	1,136	1.86	1.64
TCO	Comox	7,404	11	0	0	90,588	8,235	12.24	1.49
DCQ	Coquitlam	75,230	130	5	1	989,138	7,609	13.15	1.73
CCO	Courtenay	9,640	27	0	0	73,483	2,722	7.62	2.80
CCR	Cranbrook	15,195	37	6	0	525,355	14,199	34.57	2.44
TCR	Creston	3,934	27	1	0	244,295	9,048	62.10	6.86
CDA	Dawson Creek	10,147	31	3	0	266,258	8,589	26.24	3.06
DDE	Delta	81,639	78	13	0	1,473,600	18,892	18.05	0.96
CDU	Duncan	3,954	22	2	0	121,068	5,503	30.62	5.56
DEL	Elkford	2,915	11	1	0	136,845	12,440	46.95	3.77
CEN	Enderby	1,803	9	0	0	785,998	87,333	435.94	4.99
DES	Esquimalt	16,497	17	6	0	93,026	5,472	5.64	1.03
CFE	Fernie	4,732	16	0	0	22,235	1,390	4.70	3.38
VFO	Fort Nelson	3,535	8	0	0	322,158	40,270	91.13	2.26
VSJ	Fort St. James	1,925	4	0	2	275,000	68,750	142.86	2.08
CJO	Fort St. John	12,747	37	3	0	305,952	8,269	24.00	2.90
VFL	Fraser Lake	1,250	6	0	0	12,369	2,062	9.90	4.80
VFR	Fruitvale	1,857	4	2	0	12,525	3,131	6.74	2.15
VGL	Gibsons Landing	2,772	17	0	0	64,024	3,766	23.10	6.13
VGO	Gold River	1,970	7	0	0	192,133	27,448	97.53	3.55
TGO	Golden	3,797	9	2	0	116,377	12,931	30.65	2.37
CGF	Grand Forks	3,187	12	1	0	38,222	3,185	11.99	3.77
VGI	Granisle	668	4	0	0	23,269	5,817	34.83	5.99
CGR	Greenwood	719	1	0	0	659	659	0.92	1.39
VHH	Harrison Hot Springs	669	5	3	0	29,389	5,878	43.93	7.47
VHA	Hazelton	443	7	0	3	99,048	14,150	223.58	15.80
THO	Hope	3,093	10	0	0	206,227	20,623	66.68	3.23
DHO	Houston	3,703	6	0	0	123,963	20,661	33.48	1.62
DHH	Hudson Hope	1,127	1	0	0	488	488	0.43	0.89
VIN	Invermere	1,988	4	0	0	5,164	1,291	2.60	2.01
CKA	Kamloops	62,006	182	14	1	1,829,434	10,052	29.50	2.94

Loc. Code	Location	Population	Fires	Injured	Dead	$ Loss	Loss Per Fire	Per Capita Loss	Fires Per 1000 Persons
VKA	Kaslo	861	3	0	0	3,700	1,233	4.30	3.48
CKE	Kelowna	64,501	134	13	1	2,377,914	17,746	36.87	2.08
DKE	Kent	3,758	7	0	0	50,293	7,185	13.38	1.86
VKE	Keremeos	868	3	0	0	10,850	3,617	12.50	3.46
CKI	Kimberley	6,189	16	0	0	159,152	9,947	25.72	2.59
DKI	Kitimat	10,687	27	0	0	141,747	5,250	13.26	2.53
TLA	Ladysmith	4,521	4	0	0	73,753	18,438	16.31	0.88
VLC	Lake Cowichan	2,083	9	0	0	288,330	32,037	138.42	4.32
DLA	Langley District	58,299	128	3	0	1,509,781	11,795	88.14	7.47
CLA	Langley	17,130	54	7	0	584,742	10,829	34.14	3.15
VLI	Lillooet	1,730	4	0	0	18,460	4,615	10.67	2.31
VLB	Lions Bay	1,190	2	1	0	215,500	107,750	181.09	1.68
VLL	Logan Lake	1,809	6	0	0	42,055	7,009	23.25	3.32
VLU	Lumby	1,161	11	0	0	345,291	31,390	297.41	9.47
VLY	Lytton	347	1	0	0	15,000	15,000	43.23	2.88
DMA	Mackenzie	5,311	21	0	0	376,860	17,946	70.96	3.95
DMR	Maple Ridge	41,589	91	6	1	830,255	9,124	19.96	2.19
VMA	Masset	1,524	3	0	0	7,763	2,588	5.09	1.97
DMT	Matsqui	56,221	114	17	0	2,330,425	20,442	41.45	2.03
CME	Merritt	6,095	20	0	0	336,217	16,811	55.16	3.28
TME	Metchosin	3,836	3	0	0	61,000	20,333	15.90	0.78
VMI	Midway	626	2	0	0	70,304	35,152	112.31	3.19
DMI	Mission	23,599	73	0	0	860,583	11,789	36.47	3.09
VMO	Montrose	1,149	1	0	0	15,500	15,500	13.49	0.87
VNA	Nakusp	1,306	4	1	0	67,010	16,753	51.31	3.06
CNA	Nanaimo	50,896	165	5	3	1,478,816	8,963	29.06	3.24
CNE	Nelson	8,144	24	1	0	215,918	8,997	26.51	2.95
DNH	New Hazelton	859	3	0	0	176,000	58,667	204.89	3.49
CNW	New Westminster	41,102	140	8	0	2,509,721	17,927	61.06	3.41
DNC	North Cowichan	19,234	32	1	0	882,616	27,582	45.89	1.66
DNS	North Saanich	7,936	9	1	0	175,708	19,523	22.14	1.13
CNO	North Vancouver City	37,248	93	2	0	906,869	9,751	24.35	2.50
DNV	North Vancouver	71,120	110	3	0	804,213	7,311	11.31	1.55
DOB	Oak Bay	17,532	24	1	0	38,787	1,616	2.21	1.37
VOL	Oliver	1,996	14	0	1	297,720	21,266	149.16	7.01
VOS	Osoyoos	2,924	8	0	1	121,803	15,225	41.66	2.74
TPA	Parksville	6,139	5	0	0	52,282	10,456	8.52	0.81
DPE	Peachland	3,018	12	0	0	18,168	1,514	6.02	3.98
VPE	Pemberton	395	1	0	0	90,000	90,000	227.85	2.53
CPE	Penticton	24,805	53	5	2	356,568	6,728	14.37	2.14
DPI	Pitt Meadows	8,826	18	2	1	187,488	10,416	21.24	2.04
CPA	Port Alberni	17,892	73	3	1	866,849	11,875	48.45	4.08
VPO	Port Alice	1,359	1	0	0	592	592	0.44	0.74
VPL	Port Clements	548	1	0	0	12,395	12,395	22.62	1.82
CPC	Port Coquitlam	31,307	56	1	0	782,485	13,973	24.99	1.79
VPD	Port Edward	567	2	0	0	66,500	33,250	117.28	3.53
DPH	Port Hardy	4,946	6	0	0	15,097	2,516	3.05	1.21
VPM	Port McNeill	2,454	3	0	0	67,215	22,405	27.39	1.22
CPO	Port Moody	16,042	27	2	0	170,077	6,299	10.60	1.68
VPC	Pouce Coupe	768	2	0	0	51,000	25,500	66.41	2.60

Fire Losses in British Columbia, 1988

Loc. Code	Location	Population	Fires	Injured	Dead	$ Loss	Loss Per Fire	Per Capita Loss	Fires Per 1000 Persons
DPR	Powell River	12,177	25	0	0	167,458	6,698	13.75	2.05
CPG	Prince George	65,797	230	0	0	2,234,950	9,717	33.97	3.50
CPR	Prince Rupert	15,907	29	2	6	493,348	17,012	31.01	1.82
TPR	Princeton	2,704	16	0	0	416,712	26,045	154.11	5.92
VQB	Qualicum Beach	3,618	11	0	0	184,650	16,786	51.04	3.04
CQU	Quesnel	8,083	33	1	0	395,108	11,973	48.88	4.08
CRE	Revelstoke	7,884	22	0	0	309,253	14,057	39.23	2.79
DRI	Richmond	114,704	204	10	1	4,395,848	21,548	38.32	1.78
CRO	Rossland	3,357	8	0	0	46,577	5,822	13.87	2.38
DSA	Saanich	86,901	143	4	0	1,321,913	9,244	15.21	1.65
DSM	Salmon Arm	11,178	24	1	0	78,434	3,268	7.02	2.15
VSD	Sayward	399	3	0	0	12,198	4,066	30.57	7.52
VSE	Sechelt	5,021	20	0	0	349,773	17,489	69.66	3.98
TSI	Sidney	9,324	26	3	0	251,347	9,667	26.96	2.79
VSI	Silverton	238	1	0	0	190,000	190,000	798.32	4.20
VSL	Slocan	272	3	0	0	39,727	13,242	146.06	11.03
TSM	Smithers	4,785	12	0	0	168,718	14,060	35.26	2.51
DSP	Spallumcheen	4,413	4	0	0	145,000	36,250	32.86	0.91
DSD	Sparwood	3,870	8	0	0	175,872	21,984	45.44	2.07
DSQ	Squamish	10,642	44	7	0	1,328,173	30,186	124.80	4.13
DST	Stewart	1,044	1	0	2	46,432	46,432	44.48	0.96
DSL	Summerland	8,313	15	1	0	1,086,838	72,456	130.74	1.80
DSY	Surrey	200,683	405	16	1	5,191,635	12,819	25.87	2.02
VTA	Tahsis	1,100	2	0	0	44,727	22,364	40.66	1.82
VTE	Telkwa	854	1	0	0	1,080	1,080	1.26	1.17
DTE	Terrace	10,699	21	1	0	315,653	15,031	29.50	1.96
VTO	Tofino	934	5	0	0	36,205	7,241	38.76	5.35
CTR	Trail	7,640	23	1	1	109,035	4,741	14.27	3.01
DTU	Tumbler Ridge	4,008	14	2	0	284,170	20,298	70.90	3.49
VUC	Ucluelet	1,506	5	0	0	25,628	5,126	17.02	3.32
VVA	Valemount	1,155	3	0	0	17,900	5,967	15.50	2.60
CVA	Vancouver	443,091	1,382	80	5	28,787,018	20,830	64.97	3.12
VVF	Vanderhoof	3,213	5	0	0	19,175	3,835	5.97	1.56
CVE	Vernon	20,822	37	0	0	934,191	25,248	44.87	1.78
CVI	Victoria	67,244	215	16	3	1,994,517	9,277	29.66	3.20
DWV	West Vancouver	37,333	64	4	0	460,539	7,196	12.34	1.71
DWH	Whistler	2,406	26	1	0	227,075	8,734	94.38	10.81
CWR	White Rock	14,975	24	1	0	850,871	35,453	56.82	1.60

Fire Losses in Non-Municipal Areas

Loc. Code	Location	Fires	Injured	Dead	$ Loss	Loss/Fire
Non-Municipal Areas With Fire Protection						
NBA	Barriere	3	0	0	17,703	5,901
NBC	Beaver Creek	1	0	0	90,000	90,000
NBG	Burns Lake Rural	1	0	0	1,000	1,000
NBI	Bowen Island	3	0	0	118,500	39,500
NBK	Buckhorn	3	0	0	206,344	68,781
NBL	Beaverdell	1	0	0	500	500
NBN	Bear Lake	1	0	0	44,500	44,500
NBO	Boston Bar	1	0	0	300	300
NBR	Bralorne	1	0	0	100	100
NBT	Britannia Beach	1	0	0	230,000	230,000
NBU	Bouchie Lake	5	0	0	122,000	24,400
NBW	Bow Horn Bay/Bowser	1	0	1	99	99
NBX	Barlow Creek	5	0	0	69,200	13,840
NCB	Cowichan Bay	12	1	0	222,641	18,553
NCC	Cherry Creek(Van.Isl.)	1	0	0	45,400	45,400
NCD	Cumberland Rural	1	0	0	350	350
NCE	Creston Rural	12	0	0	26,322	2,194
NCF	Canal Flats	3	0	0	7,000	2,333
NCH	Coal Harbour	2	0	0	35,232	17,616
NCK	Charlie Lake	1	0	0	2,000	2,000
NCL	Cultus Lake	2	1	0	868,069	434,035
NCM	Comox Rural	1	0	0	200	200
NCN	Canyon Lister	1	1	0	80,000	80,000
NCO	Coombs/Hillier	3	2	0	235,000	78,333
NCQ	Courtenay Rural	12	1	1	69,758	5,813
NCU	Chilliwack River Valley	5	0	0	116,077	23,215
NCW	Colwood Rural	3	0	0	159,950	53,317
NCX	Clearwater	6	0	0	182,812	30,469
NDA	Dawson Creek Rural	2	0	0	100,200	50,100
NDE	Deka Lake	2	0	0	45,472	22,736
NDU	Duncan Rural	2	0	0	1,367	684
NDW	Dashwood	3	0	1	106,000	35,333
NER	Errington	1	0	0	4,687	4,687
NFF	Fort Fraser	1	0	0	360	360
NFG	Forest Grove	3	0	0	103,758	34,586
NFN	Fort Nelson Rural	4	0	0	130,932	32,733
NFT	Ferndale-Fabor	2	0	0	40,000	20,000
NGB	Gillies Bay	3	0	1	26,893	8,964
NGI	Gabriola Island	3	0	0	130,000	43,333
NGR	Grand Forks Rural	4	0	0	37,839	9,460
NHB	Honeymoon Bay	4	0	0	12,500	3,125
NHF	150 Mile House	1	0	0	32,000	32,000
NHG	Hagensborg	1	0	0	41,000	41,000
NHI	Hornby Island	1	0	0	2,000	2,000
NHM	Halfmoon Bay	2	0	0	149,083	74,542
NHO	Holberg	1	0	0	2,000	2,000
NHR	Hosmer	3	2	0	112,800	37,600

Loc. Code	Location	Fires	Injured	Dead	$ Loss	Loss/Fire
NKA	Kaleden	2	0	0	9,405	4,703
NKB	Kootenay Boundary Rural	1	0	0	848	848
NKI	North Westside Road	1	0	0	159,395	159,395
NKP	Kamloops Rural	8	1	0	205,475	25,684
NLA	Lindell Beach	1	0	0	31,000	31,000
NLB	Lone Butte/Horse Lake	2	0	0	12,200	6,100
NLF	Langford	15	2	0	78,374	5,225
NLL	Lac La Hache	1	0	0	90,000	90,000
NLR	Lumby Rural	1	0	0	140,000	140,000
NLT	Little Fort	3	0	0	13,963	4,654
NLV	Lantzville	3	0	0	15,000	5,000
NMB	Mill Bay	2	0	0	145,000	72,500
NMC	Mica Creek	1	0	0	500	500
NMI	Mayne Island	1	0	0	350	350
NMK	Malakwa	1	0	0	30,000	30,000
NMP	Madeira Park	1	0	0	70,000	70,000
NMR	Merritt Rural	4	1	2	74,500	18,625
NMT	Moricetown	2	0	0	120,000	60,000
NNA	Nanoose Bay	2	0	0	21,590	10,795
NNC	North Cedar	6	1	0	189,515	31,586
NND	Nelson Rural	9	0	0	26,148	2,905
NNE	Northside/Lund	1	0	0	30,000	30,000
NNF	North Fraser	3	0	0	230,282	76,761
NNO	North Oyster	5	1	2	255,000	51,000
NNP	North Pender Island	1	0	0	46,000	46,000
NNV	North Vancouver Dist. Rural	1	0	0	30,000	30,000
NOF	Okanagan Falls	5	0	0	166,909	33,382
NOL	Okanagan Landing	2	0	0	40,500	20,250
NOP	Otter Point	3	1	0	24,499	8,166
NOR	Oyster River	1	1	0	100,000	100,000
NOS	Okanagan Similkameen	1	0	0	10,500	10,500
NPA	Port Alberni Rural	5	0	0	5,617	1,123
NPC	Pass Creek	3	0	0	14,070	4,690
NPD	Parksville Rural	2	0	0	30,000	15,000
NPE	Penticton Rural	2	0	0	6,815	3,408
NPM	Port Mellon	1	0	0	210	210
NPN	Panorama	1	0	0	20,000	20,000
NPR	Port Renfrew	1	0	0	100,000	100,000
NPV	Pineview	2	0	0	29,179	14,590
NQC	Queen Charlotte City	1	0	0	150	150
NQI	Quadra Island	4	0	0	131,912	32,978
NQR	Quesnel Rural	24	1	0	404,128	16,839
NRC	Roberts Creek	1	1	0	75,000	75,000
NRH	Radium Hot Springs	6	0	0	154,896	25,816
NRO	Robson	5	1	0	109,733	21,947
NSE	Shawnigan Lake	5	0	0	117,350	23,470
NSF	Salt Spring Island	15	0	1	648,627	43,242
NSG	South Galiano	2	0	0	83,000	41,500
NSI	Saturna Island	1	0	0	750	750
NSJ	Sicamous	6	1	0	27,625	4,604
NSK	Silver Creek	1	0	0	112,000	112,000
NSM	Sahtlam	3	0	0	9,556	3,185

Fire Losses in British Columbia, 1988

Loc. Code	Location	Fires	Injured	Dead	$ Loss	Loss/Fire
NSN	Shalalth	1	0	0	40,000	40,000
NSO	Sproat Lake	3	0	0	4,759	1,586
NSQ	Sandspit	1	0	0	80,000	80,000
NSR	Sorrento	6	1	0	247,688	41,281
NSS	South Slocan	1	0	0	29,111	29,111
NST	Sointula	1	0	0	4,142	4,142
NSW	BX Swan Lake	5	0	0	69,550	13,910
NSY	Southside	1	1	0	0	0
NSZ	Sooke	16	0	0	208,625	13,039
NTB	Flood, Laidlaw, Silver-Creek	1	0	0	171,000	171,000
NTH	Thornhill	13	0	0	106,791	8,215
NTY	Tarry's	4	0	0	20,600	5,150
NUB	Union Bay	1	0	0	15,000	15,000
NUE	UBC Endowment Lands	18	0	0	40,380	2,243
NVR	View Royal	7	0	0	60,300	8,614
NVV	Vavenby	1	0	0	6,400	6,400
NWE	Westside	22	0	0	505,966	22,998
NWK	Williams Lake Rural	9	2	0	109,123	12,125
NWN	Winfield	6	0	0	116,181	19,364
NWS	Wells	1	0	0	225,000	225,000
NWT	White Lake	1	0	0	104,000	104,000
NYA	Yale	1	0	0	48,104	48,104
NYU	Youbou	1	0	0	124,800	124,800

Loc. Code	Location	Fires	Injured	Dead	$ Loss	Loss/Fire
Non-Municipal Areas With No Fire Protection (grouped together into respective regional districts)						
RAC	Alberni-Clayoquot R.D.	15	0	1	276,945	18,463
RBN	Bulkley-Nechako R.D.	37	0	0	887,335	23,982
RCA	Capital R.D.	13	1	0	310,997	23,923
RCB	Cariboo R.D.	70	0	1	1,933,822	27,626
RCC	Central Coast R.D.	5	4	0	94,509	18,922
RCF	Central Fraser Valley R.D.	8	0	0	33,181	4,148
RCK	Central Kootenay R.D.	44	3	0	766,048	17,410
RCO	Central Okanagan R.D.	23	1	0	120,175	5,225
RCL	Columbia-Shuswap R.D.	51	0	0	1,199,929	23,528
RCS	Comox-Strathcona R.D.	38	1	0	558,154	14,688
RCV	Cowichan Valley R.D.	26	2	0	349,851	13,456
RDA	Dewdney-Allouette R.D.	8	0	0	73,208	9,151
REK	East Kootenay R.D.	40	2	0	602,436	15,061
RFC	Fraser-Cheam R.D.	39	0	0	654,576	16,784
RFG	Fraser-Fort George R.D.	48	0	0	2,057,658	42,868
RGV	Greater Vancouver R.D.	13	0	0	487,299	37,485
RKI	Kitimat-Stikine R.D.	28	0	2	842,523	30,090
RKO	Kootenay Boundary R.D.	11	0	0	161,424	14,675
RMW	Mount Waddington R.D.	20	0	0	244,998	12,250
RNA	Nanaimo R.D.	23	2	0	155,601	6,765
RNO	North Okanagan R.D.	10	0	0	210,073	21,007
ROS	Okanagan-Similkameen R.D.	24	0	0	172,587	7,191
RPL	Peace River-Liard R.D.	69	0	0	1,778,005	25,768
RPR	Powell River R.D.	6	0	0	130,916	21,819
RSC	Skeena-Queen Charlotte R.D.	20	1	0	377,392	18,870
RSL	Squamish-Lillooet R.D.	24	1	2	198,750	8,281
RST	Stikine Region R.D.	5	0	0	95,500	19,100
RSU	Sunshine Coast R.D.	8	0	1	113,420	14,178
RTN	Thompson-Nicola R.D.	92	4	2	2,660,470	28,918

FIRE LOSSES AND CASUALTIES BY MONTH

Month	Fires	$ Loss	Injured	Dead
January	652	11,361,401	34	9
February	614	7,857,983	30	6
March	617	9,695,434	40	3
April	563	8,645,489	45	4
May	597	7,451,432	31	2
June	589	9,179,576	25	2
July	662	7,690,582	29	7
August	705	9,292,083	30	2
September	687	8,876,775	30	5
October	665	7,509,407	25	5
November	572	10,513,794	24	8
December	576	21,559,605	37	6
TOTALS	**7,499**	**119,633,561**	**380**	**59**

STATUS, AGE AND SEX OF CASUALTIES, 1988

	Fires	Injured	Dead
Status of Casualty			
Firefighter	44	65	0
Civilian	297	315	59
Age of Casualty			
Unknown	38	50	0
Birth - 2 years	8	4	6
3 - 4 years	5	1	4
5 - 6 years	2	1	1
7 - 8 years	2	2	0
9 - 10 years	4	2	3
11 - 12 years	5	6	0
13 - 14 years	4	2	2
15 - 16 years	7	9	0
17 - 18 years	11	11	1
19 - 20 years	7	6	1
21 - 30 years	84	88	12
31 - 40 years	78	82	6
41 - 50 years	50	51	2
51 - 60 years	33	30	3
61 - 70 years	20	12	8
71 - 80 years	19	12	8
81 - 90 years	13	11	2
Sex of Casualty			
Male		268	289
Female		101	91

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
AO	**Act or Omission**				
	Incendiary or Set Fires				
AO000	Act or omission unknown	1,185	56	15	33,265,347
AO011	Arson or set fire - financial gain	7	1		73,400
AO012	Arson or set fire - cover-up crime	102	2		2,456,502
AO013	Arson or set fire - political, religious, riot, civil commotion	1			20,000
AO014	Arson or set fire - revenge , spite	30			423,218
AO015	Arson or set fire - mental disorder, attempted suicide, suicide	27	4	3	458,198
AO016	Arson or set fire - vandalism mischief	356	2		2,626,735
AO017	Arson or set fire - intimidation	4			96,928
AO018	Arson or set fire - motive unknown or unclassified	281	16		9,036,183
AO019	Suspected set fire - motive unknown or unclassified	511	7		8,611,191
	Misuse of Source of Ignition				
AO021	Smokers' material	467	50	11	4,383,422
AO022	Thawing	7			35,645
AO023	Inadequate control of fire	66	2		591,637
AO024	Child playing with matches, lighter etc.	130	9	7	2,257,797
AO025	Welding or cutting too close	71	3		1,583,845
AO026	Torch too close	41	2		1,345,793
AO029	Misuse of source of ignition - unclassified	23	1		241,548
	Misuse of Material Ignited				
AO031	Fuel spilled accidentally	35	11		328,238
AO032	Improper fuelling technique	12	1		180,086
AO033	Flammable liquid to kindle fire	7			42,040
AO034	Cleaning, washing parts	4			79,440
AO035	Improper container, metal	5			283,611
AO036	Improper container, plastic	5	1		1,875
AO037	Combustible placed too close to heat	77	7		1,658,859
AO038	Improper storage	24	1		963,278
AO039	Misuse of material ignited - unclassified	23	3		555,012
	Mechanical or Electrical Failure				
AO041	Part failure, leak, break	898	12		4,246,531
AO042	Automatic control failure	59	8		1,109,142
AO043	Manual control failure	8	1		71,551
AO044	Electrical short circuit	783	18	1	6,156,447
AO046	Part worn out	44			128,338
AO049	Mechanical or electrical failure unclassified	324	5		2,091,805
	Construction, Design or Installation Deficiency				
AO051	Design deficiency	26			113,762
AO052	Construction deficiency	53			562,884

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
AO053	Installed too close to combustible	86	1	2	1,641,901
AO054	Other installation deficiency	26	3		166,049
AO055	Overfusing	1			50
AO056	Suspected faulty connections involving aluminum wiring	2			1,600
AO057	Suspected faulty connections involving copper wiring	6			92,661
AO059	Construction design or installation deficiency - unclassified	18	2		260,363
	Misuse of Equipment				
AO061	Overfuelling	17			313,786
AO069	Misuse of equipment - unclassified	62	3		933,129
	Human Failing				
AO071	Asleep	48	8		301,086
AO072	Temporary loss of judgement suspected (includes panic)	8	2		23,457
AO073	Physical or mental disability	12	4	2	216,220
AO074	Accident	251	36		3,476,054
AO075	Suspected impairment by use of alcohol, drugs or medication	45	11	2	965,426
AO076	Asleep - suspected use of alcohol, drugs or medication	28	4	9	580,862
AO077	Ignorance of hazard	458	44	2	16,722,602
AO078	Distracted, preoccupied	279	26	1	2,156,823
AO079	Human failing - unclassified	124	10	2	1,884,645
	Vehicle Accident				
AO081	Automobile accident	40	2		260,279
AO082	Industrial truck accident	10			262,406
AO083	Other road vehicle accident	3			12,500
AO084	Rail vehicle accident	1			1,500
AO085	Watercraft accident	1			31,710
AO089	Vehicle accident - unclassified	17	1		515,752
	Miscellaneous Act or Omission				
AO091	Chimney fire (masonry)	79			188,066
AO092	Chimney fire (factory-built)	21			48,535
AO099	Misc. act or omission unclassified	160	2		2,495,811
	TOTALS	**7,499**	**380**	**59**	**119,633,561**
BH	**Building Height**				
BH000	Building height unknown	245			1,528,559
BH001	01 storey or 3m	1,928	125	32	40,694,978
BH002	02 stories or 6m	1,409	123	17	35,971,537
BH003	03 to 04 stories or 9m to 12m	476	62	3	23,598,316
BH004	05 to 06 stories or 15m to 18m	39	3	1	621,580
BH005	07 to 12 stories or 21m to 36m	46	9		1,099,675
BH006	13 to 24 stories or 40m to 73m	37	2	1	200,830
BH007	25 to 49 stories or 75m to 149m	2			2,458
BH009	Not applicable eg. vehicle outside area, etc.	3,317	56	5	15,915,628
	TOTALS	**7,499**	**380**	**59**	**119,633,561**

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
FH	**Form of Heat**				
FH000	Form of heat unknown	2,654	62	21	46,697,013
FH001	Spark: Ember	230	15	1	3,768,477
FH002	Spark: Electrical	1,067	31	1	9,003,269
FH003	Spark: Static electrical	34	4		1,258,348
FH004	Direct flame, flue gases	1,506	98	11	22,077,835
FH005	Friction heat	48	2		735,440
FH006	Hot object, direct heat by conduction or radiation	1,296	98	4	26,918,592
FH007	Spontaneous ignition	83	3		2,778,018
FH008	Heat from smoker's material	507	63	20	5,313,981
FH009	Form of heat - unclassified	74	4	1	1,082,588
	TOTALS	**7,499**	**380**	**59**	**119,633,561**
FS	**Fire Service**				
FS000	Fire service unknown	1,230	1		5,944,904
FS001	Full time fire department	2,986	165	19	49,428,127
FS002	Volunteer fire department	809	43	22	21,032,365
FS003	Combined full time and volunt fire department	2,093	149	12	31,563,149
FS004	Police acting as full time firefighers	23	8		106,074
FS005	Combined police and fire department	1			500
FS006	Combined police and volunteer firefighters	3			6,630
FS007	Fire service - contract to others	17	1	2	353,965
FS008	No fire service	311	13	4	10,803,482
FS009	Fire service - unclassified	26			394,365
	TOTALS	**7,499**	**380**	**59**	**119,633,561**
FU	**Fuel or Energy**				
FU000	Fuel or energy unknown	1,661	62	21	41,873,072
FU001	Coal, wood	807	19	6	11,916,266
FU002	Fuel, kerosene	99	3		3,362,170
FU003	Gasoline	1,186	28	2	7,310,472
FU004	Natural gas or other fuel gas	392	46	1	6,757,879
FU005	Cigarette, cigar, pipe, match, lighter	1,020	86	23	12,161,159
FU006	Electricity	1,797	115	1	28,318,566
FU007	Lightning	10	1		30,632
FU008	Exposure fire	243	3		1,787,890
FU009	Fuel or energy - unclassified	284	17	5	6,115,455
	TOTALS	**7,499**	**380**	**59**	**119,633,561**
ID	**Initial Detection**				
ID000	Initial detection unknown	1,262	3	3	6,195,711
ID001	Smoke alarm device	163	14	3	2,329,896
ID002	Smoke detector device	81	10		874,554
ID003	Heat alarm device	18	2		332,805
ID004	Heat detector device	28	1	1	1,620,056
ID005	Automatic sprinkler system	41	2		444,700

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
ID006	Automatic system - other than sprinkler	10	1	1	197,944
ID007	Visual sighting	5,757	336	49	105,763,406
ID008	None	70	1	2	805,924
ID009	Initial detection - unclassified	69	10		1,068,565
	TOTALS	**7,499**	**380**	**59**	**119,633,561**
IG	**Igniting Object (Source of Ignition)**				
IG000	Igniting object unknown	1,596	63	23	39,522,713
IG001	No igniting object	107	3		3,368,414
	Cooking Equipment				
IG002	Stove, range: Top burner area - fire in pan	353	31		2,119,363
IG003	Stove, range: Top burner area - fire in deep fat fryer or pot	144	31		1,214,262
IG004	Stove, range: Top burner area - other circumstances	90	9		624,682
IG005	Oven of stove, range	48	1		179,052
IG006	Chafing dish, fondue	2			16,386
IG007	Deep fat fryer - separate appliance	14	1		246,622
IG011	Fry pans, grills not on stove	5	1		7,466
IG012	Other cooking unit	20	1		161,144
IG013	Open fired broiler - fixed type	1			600
IG014	Open fired broiler - portable type	52	4		245,265
IG015	Food warming appliance	28	2		758,965
IG016	Toaster, waffle iron	10	2		82,828
IG019	Cooking equipment - unclassified	19	2		163,937
	Heating Equipment				
IG021	Central heating unit	79	6		1,426,916
IG022	Service water heater	32	10		875,940
IG023	Space heater - stationary	148	5	1	3,071,314
IG024	Space heater - portable	38	9		587,757
IG025	Fireplace	139	4		1,073,718
IG026	Chimney, masonry	116			1,063,931
IG027	Flue pipe, vent connector	29			385,619
IG028	Chimney, factory-built, metal	69	2	1	1,644,840
IG029	Heating equipment - unclassified	22	1		487,108
	Appliances				
IG031	Television	9			35,718
IG032	Radio, phonograph, tape-recorder	10	3		72,549
IG033	Clothes dryer	76	1		693,127
IG034	Washing machine	6			7,570
IG035	Air conditioning and refrigeration: Central	1			500
IG036	Air conditioning or dehumidifier: Individual	2			2,300
IG037	Refrigeration unit: Individual	19			853,348
IG038	Pressing iron, ironing machine	3			3,438
IG039	Portable generator	2			13,382
IG041	Lawnmower	8			83,908
IG043	Electric blanket, heating pad	8			28,710

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
IG044	Incinerator	4			8,465
IG049	Appliance - unclassified	49	8		651,120
	Electrical Distribution Equipment				
IG051	Electrical wiring, cable: Permanent	494	6	1	3,814,333
IG052	Transformer	11			51,700
IG053	Switch gear	5			56,595
IG054	Panelboard, switchboard	30	1		409,563
IG055	Switch, outlet	23	1		174,678
IG056	Electric, wiring, cable: Temporary	101	10		1,687,130
IG057	Signal, telephone equipment	3			9,000
IG058	Battery, rectifier, charger	169			909,498
IG059	Electrical distribution equipment - unclassified	60	1		684,543
	Other Electrical Equipment				
IG061	Electric motor: 1 hp and over	35			425,119
IG062	Electric motor: Under 1 h.p.	12			57,510
IG063	Electronic equipment: Communications	1			6,500
IG065	Incandescent lamp	48	11		12,939,562
IG066	Fluorescent lamp	3			11,925
IG069	Other electrical equipment - unclassified	40			654,938
	Smokers' Material and Open Flame				
IG071	Smoker's material cigarette cigar, pipe, matches, lighter	555	68	26	5,351,342
IG072	Match, lighter: Not used in conjunction with smoking	653	372		11,816,745
IG073	Lamp	8	1		88,000
IG074	Candle, taper	57	8		860,395
IG075	Cutting torch	37	4	1	876,642
IG076	Welding equipment	55	3		942,567
IG077	Torch: Other than cutting, welding	63	4		1,987,736
IG078	Hot ashes, embers	78	2		541,436
IG079	Smoker's material of flame - unclassified	41	2		1,885,852
	Exposure				
IG081	Structure: Attached	12			126,117
IG082	Structure: Detached	103			581,356
IG083	Lumber yard	1			7,000
IG084	Outside storage container, tank	3			10,940
IG085	Open fire	59	59		552,303
IG086	Forest, tree	3	1		267,101
IG087	Grass, bush	32			193,726
IG089	Exposure - unclassified	59	1		685,663
IG090	Internal combustion engine	990	11		3,707,052
	Miscellaneous				
IG091	Heat treatment equipment	7	2		474,677
IG092	Industrial oven	4			12,169
IG093	Printing equipmeant, photographic equipment	2			1,340
IG094	Explosive	2	1		15,000

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
IG095	Fireworks	14			61,040
IG096	Bearing, belting, conveyor, brake	19			229,395
IG097	Machinery, equipment: Commercial and industrial	36	1		1,304,548
IG098	Chemical reaction	41			1,611,593
IG099	Igniting object - unclassified	172	6	2	2,366,555
	TOTALS	**7,499**	**380**	**59**	**119,633,561**
IN	**Incident Report**				
IN006	Alarm fire: LAFC report updated by insurance report	1,374	84	17	30,715,694
IN007	No-alarm fire: LAFC report updated by insurance report	45			524,683
IN008	Alarm fire: Insurance report only	300			2,265,923
IN009	No-alarm fire: Insurance report only	895			3,227,928
IN010	Alarm fire: reported by LAFC only	4,731	290	39	80,160,781
IN011	No alarm fire: reported by LAFC only	154	6	3	2,738,552
	TOTALS	**7,499**	**380**	**59**	**119,633,561**
LV	**Level of Fire Origin**				
LV000	Level of origin unknown	307	1	2	5,922,503
LV001	Basement, sub-basement	484	46	5	9,235,716
LV002	Crawl space, under structure	60	6	1	1,684,676
LV003	Ground floor, grade level	2,457	181	39	55,628,811
LV004	2nd storey	510	64	4	11,700,246
LV005	3rd storey	115	17	1	14,591,890
LV006	4th to 12th story, inclusive	46	12	1	326,694
LV007	Over 12 storeys	6	1		105,309
LV008	Roof level, includes concealed roof space, attic	172	5		3,637,896
LV009	Level of origin - not applicable	3,342	47	6	16,799,820
	TOTALS	**7,499**	**380**	**59**	**119,633,561**
MI	**Material First Ignited**				
MI000	Material first ignited unknown	1,738	65	25	39,886,891
	Structural Materials, Finish Materials				
MI001	Roof covering: Wood	64	1		1,470,594
MI002	Roof covering: Other than wood	21			390,737
MI003	Exterior wall covering,surface,finish	141	2		1,874,053
MI004	Exterior trim & appurtenance	21			244,456
MI005	Floor covering: Wood	58	8		2,655,989
MI006	Floor covering: Linoleum, tile, plastic	29	6	1	648,639
MI007	Floor covering: Carpet, rug	111	5	1	1,362,473
MI008	Structural component: Floor, ceiling, roof	84	2	2	2,414,726
MI009	Structural component: Wall	88	2		1,589,164
MI010	Interior wall covering: wood, fibreboard (high density)	126	3		2,522,085
MI011	Interior wall covering: fibreboard (low density)	29			373,392

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
MI012	Interior wall covering: plastic	14			129,262
MI013	Ceiling covering: wood, fibreboard (high density)	16			633,084
MI014	Ceiling covering: fibreboard (low density)	4			737,065
MI015	Ceiling covering: plastic	4			62,946
MI016	Insulation: Wood product	16			271,333
MI017	Insulation: Plastic	45			569,160
MI018	Insulation: Mineral	24	3		1,137,089
MI019	Structural components, finish materials - unclassified	63	3		1,236,286
	Furniture, Furnishings				
MI021	Furniture (upholstered)	264	34	13	4,073,862
MI022	Furniture: Wood (not upholstered)	29	2		344,835
MI023	Furniture: Plastic (not upholstered)	3			5,027
MI024	Ironing board	1			42,700
MI025	Mattress, pillow	124	10	1	1,094,608
MI026	Bedding	133	22	3	1,670,672
MI027	Drapery	33	7		269,535
MI028	Broom, mop, brush	1			150
MI029	Furniture, furnishings - unclassified	21			410,823
	Clothing, Textiles				
MI031	Clothing: Cotton, on a person	29	2	3	496,323
MI032	Clothing: Wool, on a person	3			150,600
MI033	Clothing: Synthetic fibre, on a person	45	4	2	797,944
MI034	Fabric: Cotton	40			322,341
MI035	Fabric: Wool	5	1		11,386
MI036	Fabric: Synthetic fibre	25	3		88,903
MI037	Fur	1			400
MI038	Tarpaulin	14			101,586
MI039	Clothing, textiles - unclassified	30	1		309,856
	Wood, Paper Products				
MI041	Wood	79	1	1	1,633,198
MI042	Wood shavings	64	1		1,223,324
MI044	Paper, packing material	67	4	1	1,277,879
MI045	Paper decoration	10			177,551
MI046	Wastepaper	64	2		457,409
MI047	Cardboard	70	6		1,340,481
MI048	Paper stock	114	7		1,949,069
MI049	Wood, paper products - unclassified	64	2		1,658,135
	Flammable, Combustible Liquids				
MI051	Gasoline	1,032	33	2	5,718,010
MI052	Fuel oil	44	3		1,914,476
MI053	Combustible liquid: Flashpoint 100F and over	70	1		1,126,364
MI054	Flammable liquid: Flashpoint less than 100F	36	10	1	1,202,376
MI055	Paint, varnish	27	1		131,927

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
MI056	Cooking oil, fat	434	56		2,984,982
MI057	Tar, asphalt	6	1		110,591
MI058	Polish, wax	9	1		27,628
MI059	Flammable liquids - unclassified	79	1		1,582,745
	Flammable Gases				
MI061	Natural gas	11	2		82,519
MI062	Propane/butane air mixture	35	8		266,513
MI063	Propane, butane, L.P.G	63	13		536,404
MI065	Acetylene	3			31,750
MI066	Hydrogen	4			455,911
MI069	Flammable gases - unclassified	20	2		801,945
	Chemicals, Plastics, Metals				
MI072	Cellulose nitrate	7			62,500
MI073	Plastics	185	8		1,077,725
MI074	Oxidizing material	1			7,443
MI075	Magnesium and alloys	2			836
MI077	Rubber, natural or synthetic	60			299,167
MI079	Chemicals - unclassified	25	4		159,566
	Agricultural, Forestry Products				
MI081	Fibres	14			560,058
MI082	Grain, flour, starch	8			301,970
MI083	Hay, straw	26	1		719,058
MI084	Tree, shrub	33	1		12,076,066
MI085	Felled timber	5			15,212
MI086	Grass, brush, leaves	35			206,305
MI088	Christmas tree	5	3		310,645
MI089	Agricultural, forestry products - unclassified	8	1		63,073
	Miscellaneous				
MI091	Coal, coke	5			6,456
MI092	Creosote deposits in chimney, flue	122			246,448
MI095	Insulation: Electric	509	12	1	2,130,039
MI096	Garbage, trash, rubbish	313	4		2,294,273
MI097	Oily rags	27			212,790
MI098	Artificial tree	2			4,300
MI099	Miscellaneous material unclassified-	205	6	1	1,787,469
	TOTALS	**7,499**	**380**	**59**	**119,633,561**
OA	**Area of Fire Origin**				
OA000	Area of origin unknown	361	8	5	8,790,093
	Means of Egress				
OA001	Hallway, corridor	60	2	2	2,469,601
OA002	Stairway, exterior	16	3		144,699
OA003	Stairway, interior	25			374,438
OA004	Escalator	2			4,000
OA005	Lobby, entrance way	44	1		850,180
OA006	Elevator	4			6,000
OA009	Means of egress - unclassified	22	3		2,192,871

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
	Assembly, Family, Sales Area				
OA011	Large assembly area: Fixed seats	3			54,600
OA012	Large assembly area: Non-fixed seats	4			308,548
OA013	Small assembly area 24	2			651,396
OA014	Lounge, living room	521	71	27	22,191,787
OA015	Sales, show room area	10			1,145,161
OA016	Library, museum	1			13,733
OA017	Sports facility	2			15,271
OA018	Covered court, atrium, mall,concourse	3			10,500
OA019	Assembly, sales area - unclassified	1			80,000
	Function Area				
OA021	Sleeping (under 5 occupants)	424	64	10	7,026,218
OA022	Sleeping (5 or more occupants)	6	1		30,089
OA023	Dining area	39	2	2	1,400,536
OA024	Bar, beverage area	2	1		500,400
OA025	Washroom, locker room	69	9	1	1,517,631
OA026	Office	30			1,102,107
OA027	Laboratory	2			800
OA029	Printing, photographic reproduction	3			6,000
OA031	Kitchen, cooking area	820	81	4	7,798,264
OA032	Laundry area	125	8		1,625,479
OA035	Electronic equipment room	6			135,807
OA036	Performance area	1			70,000
OA038	Process, manufacturing area	33	8		2,454,858
OA039	Function area - unclassified	53	3		1,184,642
	Storage Area (Inside Building)				
OA041	Product storage area	36	4		4,496,943
OA042	Closet, lockers	36	5		1,538,799
OA043	Supplies, equipment area	48	5		2,189,212
OA044	Records storage area	3			29,500
OA045	Shipping,receiving area,mail room	10			314,655
OA046	Trash, rubbish area	14			478,000
OA047	Vehicle (garage)	178	4		2,973,897
OA048	Agricultural products storage	26	2		1,120,696
OA049	Storage area - unclassified	87	4		1,676,623
	Service Facilities				
OA051	Dumbwaiter, conveyor shaft	1			1,100
OA052	Service shaft	1			500
OA053	Chute	1			80
OA054	Shipping, receiving area	2	2		400,200
OA055	Duct: Heating, air conditioning	3			74,060
OA056	Duct: Cooking, exhaust	3			10,152
OA057	Chimney: Masonry	101			302,115
OA058	Chimney: Factory built metal	79	2		1,021,620
OA059	Service facilities - unclassified	6			74,938
	Service and Equipment Area				
OA061	Machinery room	28	3		685,077
OA062	Heating equipment room	97	8	1	2,077,392
OA063	Transformer vault	12			593,226
OA064	Incinerator room	4			33,550

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
OA065	Maintenance shop	73	9		3,949,715
OA066	Paint shop	4			449,151
OA069	Service and equipment area - unclassified	28	2		1,668,116
	Structural Area				
OA071	Crawl space	48	4	1	1,435,836
OA072	Exterior balcony	47	8		1,250,222
OA073	Ceiling and floor assembly	26			729,579
OA074	Ceiling and roof/ceiling space	58	2		2,103,234
OA075	Wall Assembly	55	1		1,497,430
OA076	Exterior wall	136			1,446,152
OA077	Exterior roof	66	1		1,036,280
OA078	Awning, canopy	2			950
OA079	Structural area - unclassified	27			990,757
	Vehicle Area				
OA082	Vehicle: Engine area	1,555	10	1	6,717,456
OA083	Vehicle: Fuel area	269	6		1,077,943
OA084	Vehicle: Control area	138	1		1,277,437
OA085	Vehicle: Passenger area	463	8	1	1,678,932
OA086	Vehicle: Cargo area	107	1		894,973
OA089	Vehicle area - unclassified	192	4	2	1,208,519
	Miscellaneous				
OA091	Open area	133	6		496,411
OA092	Court, patio, terrace	53	5		549,098
OA093	Parking area	50			595,906
OA094	Storage area	34			364,984
OA095	Trash, rubbish area	261	2		223,835
OA099	Outside area - unclassified	182	5	1	3,742,601
	TOTALS	**7,499**	**380**	**59**	**119,633,561**
PR	**Property Classification**				
	Assembly				
PR111	Legitimate theatre	2			2,500
PR112	Motion picture theatre	1			9,000
PR114	Auditorium	1			500
PR115	Radio, TV studio	2			100,426
PR119	Theatre, studio, auditorium - unclassified	4	4		9,898
PR121	Bowling alley	1			34,952
PR123	Ice rink	2			5,300
PR125	Swimming facility	3	2		39,000
PR126	Ballroom, gymnasium	4	1		84,300
PR129	Amusement, recreation place - unclassified	12			261,600
PR132	Elementary school	28			166,046
PR133	High school	31			116,581
PR137	Rehabilitation school	1			8,000
PR138	College, university	9			4,630
PR139	Educational facility - unclassified	2			75,400
PR141	Church, chapel	6			376,848

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
PR143	Church hall	4	1		26,100
PR144	Funeral parlour	2			26,500
PR149	Church, funeral parlour - unclassified	1			6,100
PR151	City club	3			36,702
PR152	Country club	1			3,000
PR153	Yacht club	1			100
PR159	Social, sport club - unclassified	9			395,136
PR161	Library	1			150
PR164	Historic building	3			50,850
PR169	Library, museum - unclassified	1			3,699
PR171	Restaurant	76	1		3,735,958
PR172	Night club	3	3		950,100
PR173	Tavern	6			336,832
PR174	Lunchroom, drive-in	12	1		126,857
PR179	Food or beverage establishment - unclassified	4			30,274
PR187	Marine passenger terminal	1			1,000
PR199	Miscellaneous assembly - unclassified	2			2,215
	Institutional				
PR211	Prison: Penitentiary for men	2	2		2,079
PR212	Prison: Penitentiary for women	1			100
PR213	Jail	1			100
PR214	Reformatory, juvenile detention home	2			15,030
PR217	Police station, with lock-up facilities	1			50
PR219	Prison, jail, reformatory - unclassified	2			68,000
PR221	Home for the aged with nursing staff	8	2		159,010
PR222	Home for the aged without nursing staff	1	1		300
PR229	Home for the aged - unclassified	1			500
PR233	Children's day care	2			38,650
PR239	Child care - unclassified	2			51,433
PR241	Hospital	16	2		111,178
PR242	Sanatorium, sanatarium, nursing or convalescent home	5	1		30,669
PR244	Mental hospital	2			4,463
PR249	Hospital, sanatorium, clinic - unclassified	1			200
PR299	Miscellaneous institutional - unclassified	4	2		46,000
	Residential				
PR311	Dwelling year-round use (1-family)	1,988	150	35	44,776,349
PR312	Dwelling, seasonal use - in season (1-family)	38			680,354
PR313	Dwelling, seasonal use - off season (1-family)	6			120,900
PR314	Dwelling, year-round use (2-family)	129	23	3	1,842,962
PR317	Dwelling, farm (1-family)	15	1		563,251

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
PR319	Dwelling, 1 & 2 family - unclassified	25	4	1	100,692
PR321	Apartment, townhouse: 1-2 units with business	12			91,372
PR322	Apartment, townhouse: 1-2 units without business	16	1		248,242
PR323	Apartment, townhouse: 3-20 units with business	49	8	1	1,736,526
PR324	Apartment, townhouse: 3-20 units without business	168	13	1	1,090,086
PR325	Apartment, townhouse: Over 20 units	231	41	2	6,249,900
PR329	Apartment, townhouse- unclassified	30			114,291
PR331	Rooming, boarding, lodging house: 4 to 8 roomers or boarders	14			455,110
PR332	Rooming, boarding, lodging house: 9 to 15 roomers or boarders	3			404,200
PR339	Rooming, boarding, lodging house - unclassified	4	1		9,200
PR341	Hotel, inn, lodge: Year-round use	64	12	1	992,974
PR342	Hotel, inn, lodge: seasonal use - in season	1			500
PR349	Hotel, inn, lodge - unclassified	3			199,723
PR352	Motor hotel, motel: 3-20 units	10	2		76,871
PR353	Motor hotel, motel: Over 20 units	11	3	1	343,516
PR359	Motor hotel, motel - unclassified	7			27,852
PR361	Dormitory: School, college, university dormitory	2			700
PR363	Dormitory: Nurses' residence	1			250
PR366	Dormitory: Bunkhouse and workers' barrack	4			37,000
PR369	Dormitory - unclassified	1			200
PR371	Mobile home (1 or 2 family unit)	84	4	4	1,862,806
PR372	Houseboat	1			3,000
PR373	Travel trailer	22	4	1	74,692
PR374	Camping trailer	6			33,928
PR375	Motor home	38	1		401,644
PR376	Truck with camper	9	2		28,794
PR377	Tent	1			1,350
PR379	Mobile home, trailer - unclassified	34	2		310,316
PR391	Children's play house	2			800
PR399	Residential miscellaneous - unclassified	21	2		794,785
	Business and Personal Service				
PR411	General business office	28	1		792,013
PR412	Civic, federal or provincial government office	6			54,050
PR413	Bank	2			180
PR414	Medical, health, research or scientific office	2			5,622
PR415	Engineering, architectural and technical office	4	4		356,116

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
PR419	Office - unclassified	6			104,267
PR421	Barber or hairdressing establishment	2			58,500
PR422	Beauty parlour	4			545,665
PR439	Electronic equipment - unclassified	2			4,500
PR499	Miscelaneous business and personal service - unclassified	10			927,391
	Mercantile				
PR511	Supermarket	4			11,500
PR512	Market, grocery store	16			751,422
PR513	Specialty food store	9			283,641
PR515	Creamery, dairy store	1			195,014
PR516	Delicatessen	1			200
PR519	Food, beverage sale-unclassified	7			15,177
PR521	Clothing store	5			21,613
PR522	Clothing accessories, shoe store	1			2,000
PR531	Furniture store	4			72,864
PR532	Appliance store	1			500
PR533	Hardware store	2			8,100
PR536	Rug, floor covering store	1			75
PR539	Furniture, appliance hardware sales - unclassified	2			1,200
PR541	Book, stationery store	1			250
PR542	Newsstand, tobacco shop	2			114,028
PR543	Drug store	3			1,675,280
PR544	Jewelry store	2	2		157,393
PR547	Florist shop, greenhouse	1			100
PR548	Optical goods sales	1			300
PR549	Books, newspapers, drugs - unclassified	4			1,075
PR551	Hobby, toy shop	1			3,000
PR552	Dry goods store	1			750
PR554	Garden supply store	2			110,000
PR563	Laundry, self-service	4			122,615
PR564	Laundry, dry cleaner	1			789
PR567	Maintenance shop, general	10			582,110
PR571	Service station; public	7			222,376
PR572	Service station; private	3			3,600
PR573	Motor vehicle repairs	23	2		1,019,318
PR574	Florist shop	1			1,500
PR575	Motor vehicle accessory salds	2	1		2,500
PR577	Marine service station	1			3,500
PR578	Car wash facility	2			91,914
PR579	Motor vehicles, boats, sales and service - unclassified	24	2		514,970
PR581	Department store	3	1	1	10,025
PR582	Variety store - small	3			15,300
PR583	Variety store - large	1			500,000
PR585	Shopping mall - public Areas	5			11,287
PR589	Department, variety store - unclassified	1			70,000
PR591	Professional supply sales	1			20,000

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
PR593	Builders supply sales	2			12,952
PR599	Miscellaneous mercantile - unclassified	8			504,074
	Industrial Manufacturing Properties				
PR611	Basic industrial chemicals manufacture	3			428,500
PR612	Hazardous chemicals manufacture Industrial Manufacturing Properties	2			59,600
PR613	Plastic manufacture	1			4,411
PR614	Plastic products manufacture	5	1		728,525
PR615	Paints, varnishes, lacquers, inks, waxes, adhesives manufacture	1			200
PR617	Petroleum refineries	2	1		112,000
PR618	Asphalt, coal products manufacture	1			2,000
PR619	Chemicals, petroleum, paints,plastics manufacture - unclassified	1			13,007
PR621	Sawmill, planing mill	60	4		2,939,156
PR622	Wood, cane container, and small wares manufacture	1			56,382
PR623	Wood, cork products manufacture	1			5,000
PR624	Furniture, bedding manufacture	5			1,280,710
PR625	Paper, pulp, paperboard manufacture	9			109,450
PR627	Newspaper, magazine, printing and publishing	2			3,800
PR628	Printing, publishing	3			17,500
PR629	Wood, furniture, paper, printing manufacturing - unclassified	9	1		433,216
PR631	Basic iron and steel manufacture	1			15,680
PR633	Basic metal products manufacturing	10			679,505
PR634	Machinery manufacture	6	1		109,302
PR635	Electrical and electronic machinery manufacture	1			500
PR636	Electrical and electronic appliance manufacture	2			468,000
PR639	Metal, metal products, electrical equip. man. - unclassified	1			10,369
PR641	Slaughtering, preparation, preserving of meat	6			152,100
PR642	Dairy product manufacturing	1			68,000
PR643	Canning, preserving	1	1		242,964
PR644	Canning, preserving of fish, seafoods	1			300
PR645	Grain mill products manufacturing	3			236,100
PR646	Bakery product manufacturing	3			1,543,391
PR648	Cocoa, chocolate and sugar confectionery manufacturing	1			3,000
PR649	Food processing - unclassified	1			1,000
PR653	Breweries	1			1,000
PR664	Textile finishing	1			15,000
PR672	Leather products manufacturing	1			54,100
PR675	Fur products manufacture	1	1		30,000
PR677	Rubber, rubber products manufacturing	2			535,000

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
PR681	Shipbuilding and repairing of vessels over 20m	2	1		14,000
PR682	Boatbuilding and repairing of vessels 20m and under	4			9,037
PR683	Railway equipment manufacturing, assembly and repair	2			2,000
PR685	Bicycle manufacturing: assembly and repair	1			16,430
PR686	Aircraft and rocket manufacturing: assembly and repair	1			1,200
PR689	Vehicles and related equipment - unclassified	15			207,394
PR696	Laundry and dry cleaning plant	6			131,496
PR699	Miscellaneous manufacturing - unclassified	3			109,413
	Industrial Storage Properties				
PR711	Seeds, beans, nuts, grain storage in bulk	5			117,115
PR713	Loose or bagged agricultural products storage	1			85,000
PR715	Livestock storage	1			80,000
PR716	Agricultural supply storage	10			121,898
PR719	Agricultural products storage - unclassified	6			208,613
PR729	Textiles, fibres, clothing storage - unclassified	2			1,700
PR742	Packaged petroleum products storage	1			280,000
PR744	LP gas cylinders storage	1			300
PR749	Flammable liquids, gases, petroleum prod storage - unclassified	2			36,937
PR751	Lumberyards, building materials storage	3			103,240
PR752	Wood products storage	11			439,785
PR753	Furniture storage	1			1,260,843
PR754	Fibre products storage	1			102,906
PR755	Rolled paper, newsprint storage	1			500
PR756	Paper and paper products storage	4			8,950
PR757	Felled timber, log storage	3			99,485
PR758	Pulpwood pile, cordwood storage	2			120,000
PR759	Wood, furniture, paper and products storage - unclassified	1			300,000
PR763	Plastics and plastic products storage	1			1,000
PR765	Paints and varnishes storage	1			79,000
PR767	Rubber, rubber products storage	1			70,000
PR774	Machinery storage	1			6,000
PR775	Electrical applinaces and supplies storage	1			500
PR777	Scrap and junkyards	3			17,050
PR779	Metal products, machinery, elecrical appliance storage - unclassified	3			185,500
PR781	Garage: Individual residential parking	154	6		1,678,936

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
PR782	Garage: General auto parking	20			176,511
PR784	Heavy machine and equipment storage	4			160,818
PR785	Marinas, boat and ship storage	3			66,219
PR787	Railway storage	1			10,000
PR789	Vehicle storage - unclassified	2			272,072
PR791	General warehouse	11	3		904,863
PR794	Freight terminal	1			3,000
PR798	Pier, wharf, storage in open area	1			5,000
PR799	Miscellaneous storage properties - unclassified	16	1		494,572
	Outdoor Property, Vehicles				
PR811	Brush, grass and light ground cover	9			5,700
PR812	Dumps	1			10,000
PR813	Trees	21			14,800
PR814	Fences, poles, railroad ties	20			7,650
PR815	Trash and rubbish	224			39,025
PR816	Mailboxes	2			10
PR818	Forest, standing timber	2			157,000
PR819	Outdoor property - unclassified	48	2		62,506
PR821	Bridge, trestle, overpass, elevated road and railway	3			101,550
PR822	Tunnel	1			516
PR831	Buildings under construction	1			500
PR832	Buildings under demolition	6	1		4,700
PR835	Vacant property	36			556,184
PR836	Unoccupied property	5			95,000
PR837	Contractors' sheds	1			5,000
PR839	Under construction or demolition - unclassified	4			124,295
PR841	Motor craft (20m and under loa)	17	2		357,925
PR842	Vessel (under 1,000gt)	6			119,214
PR843	Ship, passenger	2			40,850
PR846	Ship, cargo	1	4		5,000
PR847	Non self-propelled vessel	2			4,000
PR848	Commercial fishing vessel	15	3		354,100
PR849	Watercraft - unclassified	17	2		187,928
PR853	Railway car: Freight	5			54,300
PR854	Locomotive, engine, and other power unit	1			300,000
PR855	Self-powered car	1			5,500
PR856	Roadbed maintenance equipment/car	1			1,000
PR859	Rail transport vehicle and equipment - unclassified	2			1,200
PR861	Automobile	2,296	16	2	5,935,216
PR862	Bus, trackless trolley	15			48,014
PR863	Truck, compressed or lp gas tank	8			37,018
PR864	Truck, flammable liquid,chemical tank	3			53,390
PR865	Truck, general	259	4	1	1,492,554
PR866	Motorcycle	23	1		40,965
PR867	Wagon, Non-motorized hauling vehicle	9			35,350
PR868	Industrial or commercial trailer	30			573,998

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
PR869	Ground transport vehicle - unclassified	37	1		512,350
PR871	Aircraft, private	2			30,000
PR881	Construction equipment	17	2		552,479
PR882	Farm tractor and equipment	19			90,022
PR883	Crane, mobile and fixed	3			21,900
PR884	Industrial truck: Fork lift and material handling	14	3		131,634
PR886	Snowmobile	4			4,734
PR889	Special vehicle - unclassified or unknown	38			2,501,245
	Miscellaneous Property				
PR912	Laboratory: Physical, material testing hydraulics	2	2		707,932
PR921	Poultry, egg production	2			7,872
PR922	Cow and cattle production	4			967,031
PR923	Storage barn	24	2		560,626
PR924	Animal barn, cattel, pigs, horses	6	1		69,344
PR925	Crops, orchards, straw stacks	1			50
PR927	Fruit, vegetable packing	3			859,988
PR929	Farm facility - unclassified	13			149,541
PR931	Shed	64	1		439,623
PR932	Privy	6			7,220
PR934	Awning, canopy	4			9,700
PR935	Non-metallic mineral product manufacturing	3			5,400
PR936	Root cellar	1			100
PR938	Telephone booth	2			450
PR939	Miscellaneous outbuildings - unclassified	48	1		185,286
PR941	Electrical light and power generating plant	1			8,000
PR942	Electric light & power distribution system	16			79,481
PR945	Heating plant	1			20,000
PR946	Water supply system	2			2,000
PR949	Utility - unclassified	8	1		312,000
PR951	Structl clay products manufacturing	1			1,500
PR963	Metal ore mine	1			150,000
PR969	Mining, quarrying - unclassified	1			328,323
PR974	Telephone exchange	1	3		10,000
PR996	Groundskeeping equipment	9	2		415,653
	TOTALS	**7,499**	**380**	**59**	**119,633,561**
SD	**Smoke Detector Alarm Operation**				
SD000	No smoke alarm installed	1,914	174	38	53,767,057
SD001	Alarm activated - assisted occupants in evacuating	311	43	1	20,764,385
SD002	Alarm activated - inaudible	9			339,568
SD003	Alarm activated - occupants unable to respond	14	2	1	420,654

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
SD004	Alarm activated - unnecessary to evacuate	188	14		2,674,935
SD005	Alarm activated - occupant action unknown	74	16	1	3,598,994
SD006	Alarm not activated - unsuitable location	66	3		1,947,872
SD007	Alarm not activated - no or dead battery	85	20	4	1,568,768
SD008	Alarm not activated - AC power not connected or off	26	2		216,056
SD009	Alarm not activated - mechanical failure	14			259,397
SD010	Alarm not activated - unknown	283	24	2	6,366,021
SD011	Not applicable eg. outside area	3,093	63	6	17,493,217
SD099	Smoke alarm operation unknown	1,422	19	6	10,216,637
	TOTALS	**7,499**	**380**	**59**	**119,633,561**
SP	**Sprinkler Protection**				
SP000	Sprinkler protection unknown	1,240	2		5,969,815
SP001	Complete sprinkler protection - supervised or standard watchman	69	4		500,107
SP002	Complete sprinkler protection - alarm to fire department	32			358,222
SP003	Complete sprinkler protection - unsupervised, local alarms only	113	8	1	1,021,920
SP004	Partial sprinkler protection - supervised or standard watchman	29	2		470,594
SP005	Partial sprinkler protection - alarm to fire department	22			81,149
SP006	Partial sprinkler protection - unsupervised, local alarms only	134	18	1	6,485,158
SP007	No sprinkler protection	2,936	281	51	88,909,274
SP008	Not applicable, eg. vehicle, outside area, etc.	2,912	58	6	15,570,878
SP009	Sprinkler protection - unclassified	12	7		266,444
	TOTALS	**7,499**	**380**	**59**	**119,633,561**
TI	**Time of Day**				
TI000	Time 0000-0059 hrs	241	15	1	6,513,120
TI001	Time 0100-0159 hrs	292	16	2	5,002,697
TI002	Time 0200-0259 hrs	270	19		8,476,878
TI003	Time 0300-0359 hrs	239	16	4	4,535,236
TI004	Time 0400-0459 hrs	194	9	3	4,487,380
TI005	Time 0500-0559 hrs	204	11	4	6,196,039
TI006	Time 0600-0659 hrs	171	14	5	2,716,623
TI007	Time 0700-0759 hrs	162	9	5	3,438,937
TI008	Time 0800-0859 hrs	206	11		2,521,818
TI009	Time 0900-0959 hrs	253	31	9	3,363,383
TI010	Time 1000-1059 hrs	297	19	3	4,205,762
TI011	Time 1100-1159 hrs	337	5	2	4,233,822
TI012	Time 1200-1259 hrs	323	20	3	15,564,700
TI013	Time 1300-1359 hrs	345	10		5,374,514

CODE	DESCRIPTION		FIRES	INJURED	DEAD	$ LOSS
TI014	Time 1400-1459 hrs		363	22	1	3,299,702
TI015	Time 1500-1559 hrs		375	11	2	2,907,447
TI016	Time 1600-1659 hrs		404	20	2	3,463,574
TI017	Time 1700-1759 hrs		401	18	2	5,185,565
TI018	Time 1800-1859 hrs		388	27	5	4,056,342
TI019	Time 1900-1959 hrs		352	20	1	4,224,628
TI020	Time 2000-2059 hrs		363	14	2	3,707,152
TI021	Time 2100-2159 hrs		292	26	2	5,267,092
TI022	Time 2200-2259 hrs		290	4		3,931,911
TI023	Time 2300-2359 hrs		287	13	1	4,634,791
TI099	Time unknown		450			2,324,448
		TOTALS	**7,499**	**380**	**59**	**119,633,561**
WD	**Weekdays**					
WD001	Sunday		1,163	59	11	27,855,044
WD002	Monday		1,056	50	3	12,938,017
WD003	Tuesday		1,040	48	2	19,346,800
WD004	Wednesday		955	52	12	14,904,154
WD005	Thursday		1,051	52	8	12,314,343
WD006	Friday		1,066	52	11	15,121,821
WD007	Saturday		1,168	67	12	17,153,382
		TOTALS	**7,499**	**380**	**59**	**119,633,561**

Circumstances Contributing to Fire Casualties

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
	Condition of Casualty				
FC010	Condition of casualty unknown	44	42	12	13,105,868
FC011	Asleep at time of fire	26	26	7	1,311,598
FC012	Bedridden or other physical handicap	1		1	40,000
FC013	Impairment by alcohol, drugs or medication	12	5	7	464,625
FC014	Awake or no physical or mental impairment at time of fire	73	86	5	1,687,793
FC016	Too young to react to fire	5	2	5	261,475
FC017	Mental handicap (senile)	1		1	46,432
FC018	Left unattended (infant)	1	1		55,316
FC019	Condition of casualty - unclassified	14	15	2	407,513
	Action of Casualty				
FC020	Action of casualty unknown	52	45	17	13,368,734
FC021	Injured while attempting to escape	22	27	3	1,266,462
FC023	Voluntarily entered or remained for rescue purpose	5	4	2	352,907
FC024	Voluntarily entered or remained for fire fighting	61	73	1	1,088,626
FC025	Voluntarily entered or remained to save personal property	4	4		13,130
FC026	Loss of judgement or panic	9	4	9	380,072
FC027	Received delayed warning	5	5		206,500
FC028	Did not act	10	7	6	379,660
FC029	Action of casualty - unclassified	10	8	2	408,632
	Ignition of Fabric				
FC030	Ignition of clothing or fabric not applicable	134	148	32	15,987,991
FC031	Outer clothing	10	10		151,392
FC032	Sleepwear	3	2	1	143,800
FC033	Underclothing	1		1	81,475
FC035	Bedding and bed linen	4	2	2	107,319
FC036	Mattress or pillow	2	2		23,260
FC037	Upholstered furniture	6	6	1	154,656
FC038	Rugs	1	2		300
FC039	Ignition of clothing or fabrics - unclassified	6	5	3	296,475
	Type of Fabric				
FC040	Type of fabric or material not applicable	134	148	32	15,999,641
FC041	Cotton	8	8		115,852
FC043	Other natural fibre	1			26,819
FC045	Synthetic fibre	3	3		104,600
FC046	Mixture fibres	10	10	2	199,988
FC048	Plastic or plastic foam	1			45,000
FC049	Type of fabric or material ignited - unclassified	10	8	4	408,293

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
	Cause of Failure to Escape				
FC050	Cause of failure to escape unknown	144	148	29	17,436,911
FC051	Trapped by: Rapid spread of fire/ smoke through vertical openings	7	4	9	377,869
FC052	Trapped by: Rapid spread of fire/ smoke through horizontal openings	15	18	6	600,624
FC053	High flame spread of combustible finish of walls, ceilings or floors	7	3	5	253,346
FC054	Building collapse	1	1		564,857
FC055	Falling debris	4	5		872,107
FC056	Explosion	17	20	1	280,540
FC058	Outdoor fire includes forest, brush	5	5		9,458
FC059	Cause of failure to escape - unclassified	149	176	9	6,152,218

SUMMARY OF FIRE LOSSES BY PROPERTY GROUPS, 1988

Property Class. Codes	Property Group	No. of Fires	Per Cent of Total Fires	$ Loss	Per Cent of Total $ Loss	No. Injured	Per Cent of Total Injured	No. Dead	Per Cent of Total Dead
	Assembly								
131-139	Educational	71	0.9	370,657	0.3	0	0.0	0	0.0
172-173	Nightclub,tavern	9	0.1	1,286,932	1.1	3	0.8	0	0.0
171,174,179	Restaurant, eating establishment	92	1.2	3,893,089	3.3	2	0.5	0	0.0
111-129,141-169 181-199	Others	67	0.9	1,475,876	1.2	8	2.1	0	0.0
	Institutional								
221-229	Home for aged	10	0.1	159,810	0.1	3	0.8	0	0.0
231-249	Hospital, day-centre, home	28	0.4	236,593	0.2	3	0.8	0	0.0
211-219,299	Others	13	0.2	131,359	0.1	4	1.1	0	0.0
	Residential								
311-319	One- & two family dwelling	2,201	29.4	48,084,508	40.2	177	46.6	40	67.8
321-329	Apartment	506	6.7	9,530,417	8.0	63	16.6	4	6.8
331-359	Hotel, motel, rooming house	117	1.6	2,509,946	2.1	16	4.2	4	6.8
361-369	Dormitory, bunkhouse	8	0.1	138,150	0.1	0	0.0	0	0.0
371	Mobile home	84	1.1	1,862,806	1.6	4	1.1	4	6.8
373-376	Recreational vehicle	75	1.0	539,058	0.5	6	1.6	2	3.4
372,377-399	Others	59	0.8	1,110,251	0.9	4	1.1	0	0.0
411-499	**Business and personel service**	66	0.9	2,848,304	2.4	5	1.3	0	0.0
511-599	**Mercantile**	174	2.3	7,134,312	6.0	8	2.1	1	1.7
611-699	**Industrial manufacturing**	184	2.5	10,849,738	9.1	10	2.6	1	1.7
711-799	**Industrial storage**	280	3.7	7,498,313	6.3	10	2.6	0	0.0
	Miscellaneous								
811-829,891	Outdoor property, pier, wharf	331	4.4	398,757	0.3	2	0.5	0	0.0
841-849	Watercraft	60	0.8	1,069,017	0.9	11	2.9	0	0.0
851-859	Rail transport and equipment	10	0.1	362,000	0.3	0	0.0	0	0.0
861	Automobile	2,296	30.6	5,935,216	5.0	16	4.2	2	3.4
862-869,881-889	Other grd transport & special vehicle	479	6.4	6,095,653	5.1	11	2.9	1	1.7
871-879	Aircraft	2	0.0	30,000	0.0	1	0.3	0	0.0
831-839,899 911-999	Remainder	277	3.7	6,082,799	5.1	13	3.4	0	0.0
	TOTALS	**7,499**	**100.0**	**119,633,561**	**100.0**	**380**	**100.0**	**59**	**100.0**

ARSON LOSSES BY PROPERTY GROUP, 1988

Property Class. Codes	Property Group	No. of Arson Fires 1987	No. of Arson Fires 1988	Incidence of Arson within Prop. Group (%) 1988	% of ALL Arson Fires in B.C. 1988	Arson Dollar Loss 1987	Arson Dollar Loss 1988	% of Total Arson $ Loss 1988
	Assembly							
131-139	Educational	49	52	73.2	3.9	2,584,025	349,027	1.5
172-173	Nightclub, tavern	5	0	0.0	0.0	24,850	0	0.0
171,174,179	Restaurant, eating establishment	18	28	30.4	2.1	876,365	1,649,500	6.9
111-129,141-169	Others	30	26	38.8	2.0	504,905	652,776	2.7
181-199								
	Institutional							
221-229	Home for aged	0	1	10.0	0.1	0	130,000	0.5
231-249	Hospital, day-centre, home	5	8	28.6	0.6	25,970	64,163	0.3
211-219,299	Others	8	9	69.2	0.7	10,800	24,359	0.1
	Residential							
311-319	One- & two-family dwelling	197	177	8.0	13.4	4,417,369	4,449,072	18.7
321-329	Apartment	109	96	19.0	7.3	1,968,837	3,583,925	15.1
331-359	Hotel, motel, rooming house	31	29	24.8	2.2	203,063	570,054	2.4
361-369	Dormitory, bunkhouse	1	0	0.0	0.0	130,000	0	0.0
371	Mobile home, mobile camp	5	6	7.1	0.5	56,341	115,616	0.5
373-376	Recreational vehicle	16	14	18.7	1.1	57,425	74,087	0.3
372,377-399	Others	4	6	10.7	0.5	34,800	30,934	0.1
411-499	**Business and personal service**	40	24	36.4	1.8	3,239,176	1,648,260	6.9
511-599	**Mercantile**	68	54	31.0	4.1	4,706,786	1,417,003	6.0
611-699	**Industrial manufacturing**	24	10	5.4	0.8	1,188,445	1,634,078	6.9
711-799	**Industrial storage**	112	118	42.1	8.9	793,883	3,883,738	16.3
	Miscellaneous							
811-829,891	Outdoor property, pier, wharf	107	169	51.1	12.8	999,536	177,768	0.7
841-849	Watercraft	5	3	5.0	0.2	44,850	8,100	0.0
851-859	Rail transport and equipment	7	3	30.0	0.2	20,042	24,500	0.1
861	Automobile	259	345	15.0	26.2	810,598	1,478,896	6.2
862-869,881-889	Other grd transport & special vehicle	98	59	12.3	4.5	473,978	442,647	1.9
871-879	Aircraft	0	0	0.0	0.0	0	0	0.0
831-839,899	Remainder	79	82	29.6	6.2	451,250	1,393,852	5.9
911-999								
	TOTALS	**1,277**	**1,319**		**100.0**	**23,623,294**	**23,802,355**	**100.0**

FIRES WITH LOSS OF $500,000 OR MORE

DATE	LOCATION	PROPERTY CLASSIFICATION	ACT OR OMISSION	LOSS	INJ.	DEAD
880101	Vancouver	Night club	Act or omission unknown	500,000	1	0
880105	Prince George	Restaurant	Arson or set fire - motive unknown	516,000	0	0
880213	Burnaby	Laboratory	Arson or set fire - motive unknown	564,857	2	0
880214	Matsqui	Cow and cattle production	Act or omission unknown	506,031	0	0
880308	Cultus Lake	Misc. business - unclassified	Arson or set fire - motive unknown	783,069	0	0
880308	Richmond	Bakery	Arson or set fire - motive unknown	1,533,291	0	0
880418	Vancouver	Furniture storage	Suspected set fire - motive unknown	1,260,843	0	0
880424	Vancouver	Hotel: Year-round use	Act or omission unknown	609,500	5	0
880508	New Westminster	Apartment: Over 20 units	Suspected set fire - motive unknown	706,939	0	0
880513	Surrey	Sawmill, planing mill	Act or omission unknown	650,000	1	0
880624	Enderby	Apartment: Over 20 units	Act or omission unknown	730,000	0	0
880816	Vancouver	Apartment: Over 20 units	Arson or set fire - motive unknown	1,200,000	0	0
880827	Alert Bay	Misc. restaurant - unclassified	Act or omission unknown	600,000	0	0
880907	Vancouver	Drug store	Act or omission unknown	1,500,200	0	0
880907	Summerland	Fruit, vegetable packing	Child playing with matches, lighter	825,000	0	0
881125	Kelowna	Plastic products manufacturing	Accident	570,600	1	0
881126	Vancouver	Furniture, bedding manufacturing	Act or omission unknown	1,090,000	0	0
881128	Vancouver	Apartment: 3-20 units with business	Torch too close	540,000	0	0
881213	Burnaby	Apartment: Over 20 units	Suspected set fire - motive unknown	566,638	0	0
881221	New Westminster	Variety store - large	Act or omission unknown	500,000	0	0
881225	Vancouver	Dwelling: Year-round use (1-family)	Ignorance of hazard	12,000,000	1	0

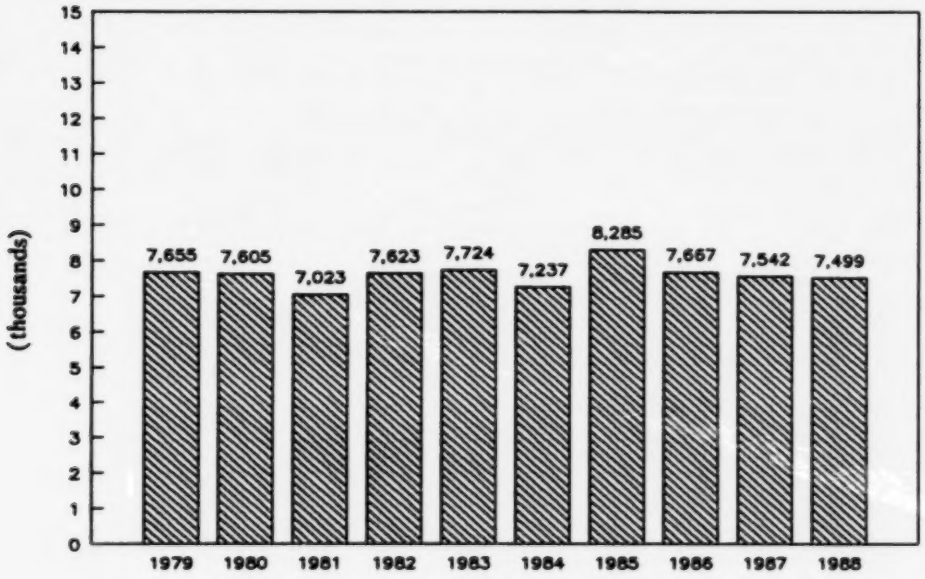
10-YEAR FIRE LOSS COMPARISON, 1979 - 1988

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
No. of Fires	7,655	7,605	7,023	7,623	7,724	7,237	8,285	7,667	7,542	7,499
Dollar Loss	$105,900,046	$108,664,176	$115,709,786	$157,296,688	$131,659,496	$108,859,185	$131,932,474	$109,834,964	$117,159,528	$119,633,561
Loss per Fire	$13,834	$14,289	$16,476	$20,634	$17,046	$15,042	$15,924	$14,326	$15,534	$15,953
Population (thousands)*	2,566.9	2,636.0	2,744.0	2,783.0	2,823.9	2,870.7	2,892.5	2,889.2	2,925.0	2,983.8
No. of Fires/1000 Persons	2.98	2.89	2.56	2.74	2.74	2.52	2.86	2.65	2.58	2.51
Per Capita Loss	$41.26	$41.22	$42.17	$56.52	$46.62	$37.92	$45.61	$38.02	$40.04	$40.09
CPI Adjustment Factor#	0.800	0.875	1.000	1.105	1.166	1.213	1.252	1.293	1.333	1.360
Loss Adjusted by CPI	$132,375,058	$124,187,630	$115,709,786	$142,349,944	$112,915,520	$89,743,763	$105,377,375	$84,945,834	$87,891,619	$87,965,854
Loss/Fire adj. by CPI	$17,293	$16,330	$16,476	$18,674	$14,619	$12,401	$12,719	$11,079	$11,654	$11,730
Per Capita Loss adjusted by CPI	$51.57	$47.11	$42.17	$51.15	$39.99	$31.26	$36.43	$29.40	$30.04	$29.48
Persons Injured	444	308	244	375	404	396	398	343	398	380
Fire Deaths	125	77	76	73	83	79	60	58	42	59
Deaths/100,000 Persons	4.87	2.92	2.77	2.62	2.94	2.75	2.07	2.01	1.44	1.98

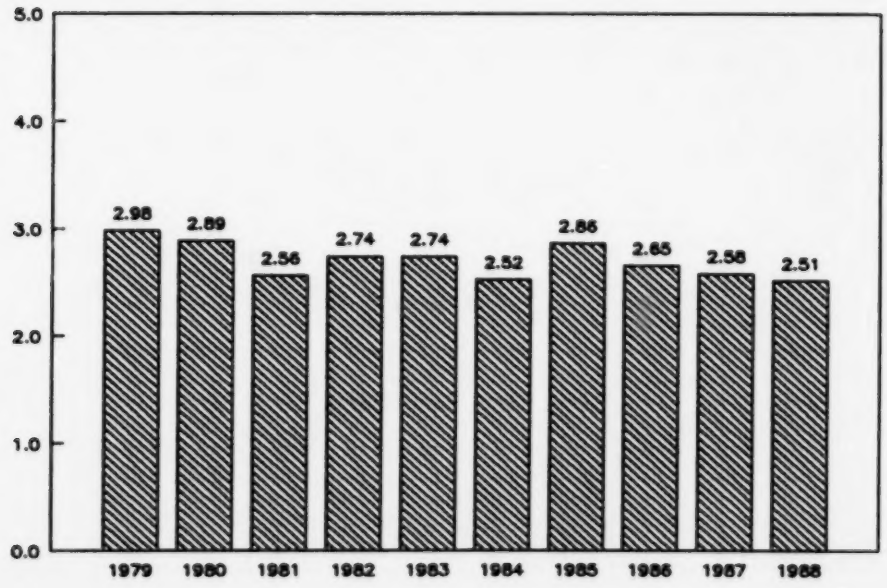
* Population statistics were provided by Statistics Canada. The figures for 1981 and 1986 are actual census figures. The others are estimates by Statistics Canada.

Adjustment Factor. In an effort to get a more realistic picture of losses over the years, some form of adjustment factor was neccessary to take inflation into account. We chose the Consumer Price Index for Vancouver with 1981 = 1.000.

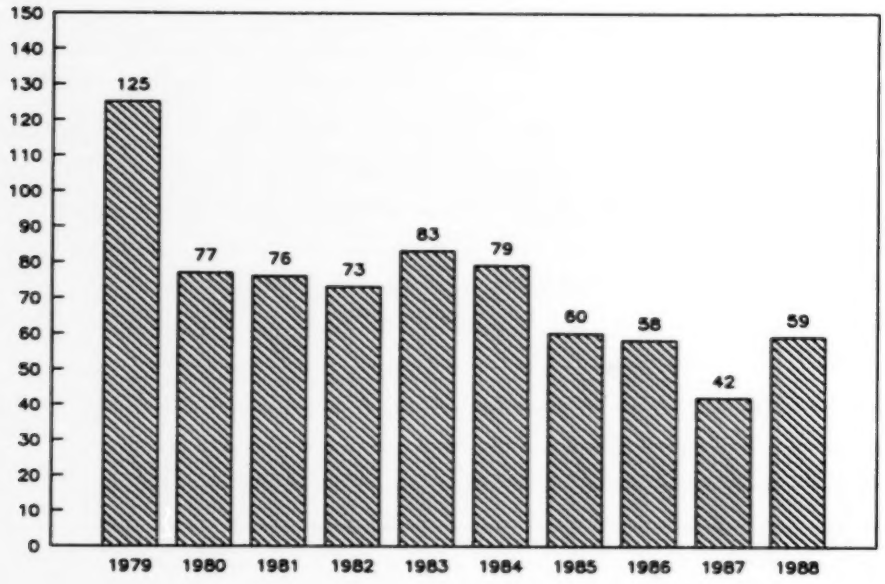
Number of Fires



Number of Fires Per 1,000 Persons

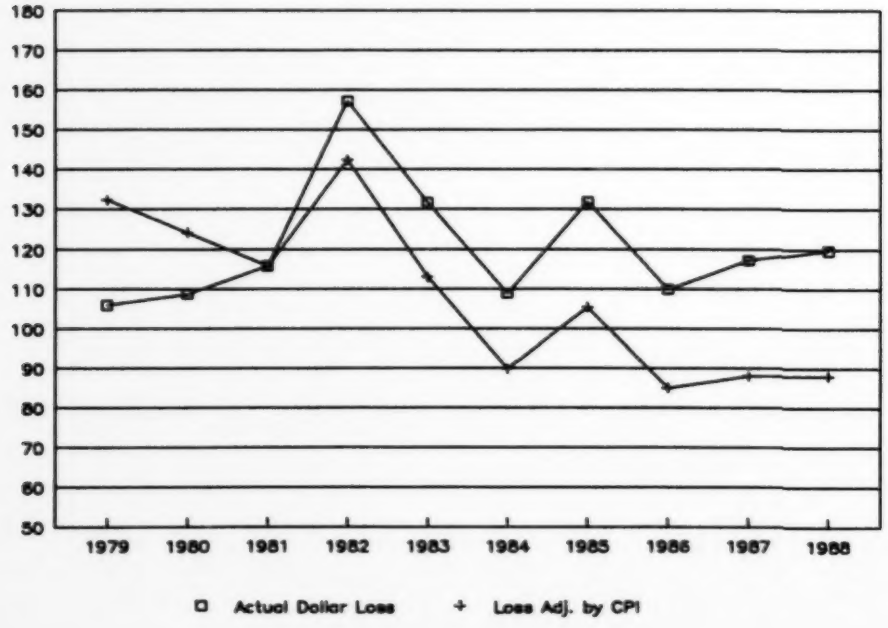


Number of Fire Fatalities



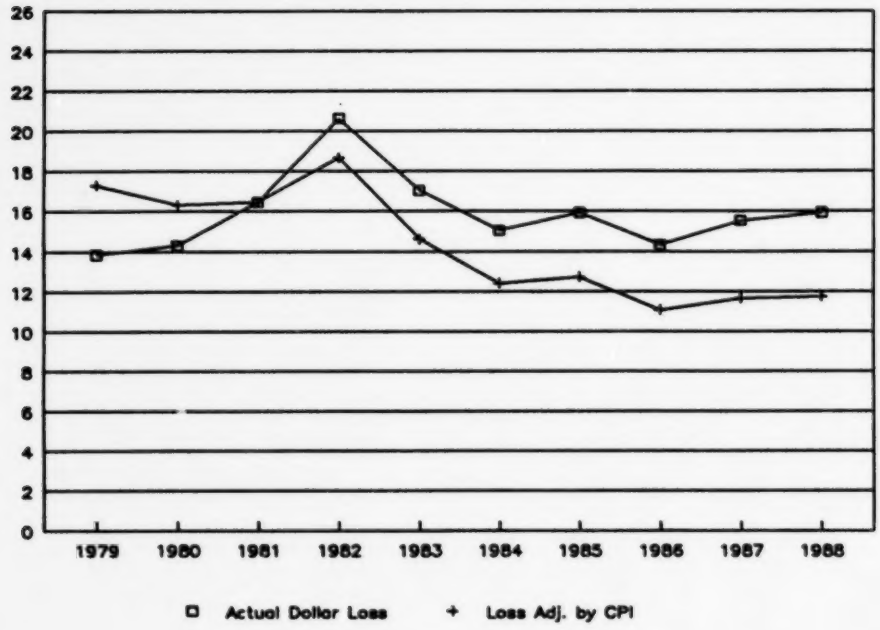
Actual & Adjusted Dollar Losses

($ in millions)



Actual & Adjusted Dollar Loss Per Fire

($ in thousands)



Actual & Adjusted Per Capita Dollar Loss